CRF Error Corrected by the STIC Systems Branch

Serial Number: 08/910,733

CRF Processing Date: 2/13/98
Edited by: _____
Verified by: _____ (STIC staff)

02/18/98

ENTERED

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically: _____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____

☑ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included: _____

☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically: _____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: _____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other: _____
_____
_____
_____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

3/1/95

Mertz

●   ●   **1646**

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/910,733*

DATE: 02/13/98
TIME: 10:58:50

INPUT SET: S23457.raw

> This Raw Listing contains the General
> Information Section and up to the first 5 pages.

```
 1                              SEQUENCE LISTING
 2
 3   (1)     General Information:                      Does Not Comply
 4                                                     Corrected Diskette Needed
 5        (i) APPLICANT: COLOTTA, Francesco
 6                       MUZIO, Marta
 7                       MANTOVANI, Alberto
 8
 9      (ii) TITLE OF INVENTION: INTERLEUKIN-1 ANTAGONIST, DNA ENCODING SAME,
10                               AND ANTIBODIES THERETO
11
12     (iii) NUMBER OF SEQUENCES: 17
13
14      (iv) CORRESPONDENCE ADDRESS:
15           (A) ADDRESSEE: BROWDY AND NEIMARK
16           (B) STREET: 419 Seventh Street, N.W., Suite 300
17           (C) CITY: Washington
18           (D) STATE: D.C.
19           (E) COUNTRY: USA
20           (F) ZIP: 20004
21
22       (v) COMPUTER READABLE FORM:
23           (A) MEDIUM TYPE: Floppy disk
24           (B) COMPUTER: IBM PC compatible
25           (C) OPERATING SYSTEM: PC-DOS/MS-DOS             insert heading
26           (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 ⟍
27           ──────────────────────────────────────────────────⟍ (VI) CURR. APP. DATA
28  (vii) (vi) PRIOR APPLICATION DATA:
29           (A) APPLICATION NUMBER: US 08/476,860
30           (B) FILING DATE: 07-JUN-1995
31
32     (vii) PRIOR APPLICATION DATA:
33           (A) APPLICATION NUMBER: IT MI 94 A 002097
34           (B) FILING DATE: 13-OCT-1994
35
36    (viii) ATTORNEY/AGENT INFORMATION:
37           (A) NAME: YUN, Allen C.
38           (B) REGISTRATION NUMBER: 37,971
39           (C) REFERENCE/DOCKET NUMBER: COLOTTA=1A
40
41      (ix) TELECOMMUNICATION INFORMATION:
42           (A) TELEPHONE: 202-628-5197
43           (B) TELEFAX: 202-737-3528
44
45
46   (2) INFORMATION FOR SEQ ID NO: 1:
```

```
47
48          (i) SEQUENCE CHARACTERISTICS:
49              (A) LENGTH: 25 base pairs
50              (B) TYPE: nucleic acid
51              (C) STRANDEDNESS: single
52              (D) TOPOLOGY: linear
53
54         (ii) MOLECULE TYPE: DNA
55
56        (iii) HYPOTHETICAL: NO
57
58         (ix) FEATURE:
59              (D) OTHER INFORMATION: RT-PCR oligonucleotide named IRA5
60
61         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
62
63   CTGACTTGTA TGAAGAAGGA GGTGG                                          25
64
65   (2) INFORMATION FOR SEQ ID NO: 2:
66
67          (i) SEQUENCE CHARACTERISTICS:
68              (A) LENGTH: 20 base pairs
69              (B) TYPE: nucleic acid
70              (C) STRANDEDNESS: single
71              (D) TOPOLOGY: linear
72
73         (ii) MOLECULE TYPE: DNA
74
75        (iii) HYPOTHETICAL: NO
76
77         (ix) FEATURE:
78              (D) OTHER INFORMATION: RT-PCR oligonucleotide corresponding
79                                     to 60-79 of B-actin
80
81         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
82
83   GCGCTCGTCG TCGACAACGG                                                20
84
85   (2) INFORMATION FOR SEQ ID NO: 3:
86
87          (i) SEQUENCE CHARACTERISTICS:
88              (A) LENGTH: 21 base pairs
89              (B) TYPE: nucleic acid
90              (C) STRANDEDNESS: single
91              (D) TOPOLOGY: linear
92
93         (ii) MOLECULE TYPE: DNA
94
95        (iii) HYPOTHETICAL: NO
96
97         (ix) FEATURE:
98              (D) OTHER INFORMATION: RT-PCR backward oligonucleotide
99                                     complementary to 430-449
```

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100
101        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
102
103   GATAGACAAC GTACATGGCT G                                              21
104
105   (2) INFORMATION FOR SEQ ID NO: 4:
106
107        (i) SEQUENCE CHARACTERISTICS:
108             (A) LENGTH: 87 base pairs
109             (B) TYPE: nucleic acid
110             (C) STRANDEDNESS: single
111             (D) TOPOLOGY: linear
112
113        (ii) MOLECULE TYPE: DNA
114
115       (iii) HYPOTHETICAL: NO
116
117        (ix) FEATURE:
118             (D) OTHER INFORMATION: Sequence of sIL-1ra not in common
119
120        (ix) FEATURE:
121             (A) NAME/KEY: CDS
122             (B) LOCATION: 24..86
123
124        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
125
126   GAATTCCGGG CTGCAGTCAC AGA ATG GAA ATC TGC AGA GGC CTC CGC AGT        50
127                             Met Glu Ile Cys Arg Gly Leu Arg Ser
128                              1                   5
129
130   CAC CTA ATC ACT CTC CTC CTC TTC CTG TTC CAT TCA G                    87
131   His Leu Ile Thr Leu Leu Leu Phe Leu Phe His Ser
132    10                  15                  20
133
134
135   (2) INFORMATION FOR SEQ ID NO: 5:
136
137        (i) SEQUENCE CHARACTERISTICS:
138             (A) LENGTH: 21 amino acids
139             (B) TYPE: amino acid
140             (D) TOPOLOGY: linear
141
142        (ii) MOLECULE TYPE: protein
143
144        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
145
146   Met Glu Ile Cys Arg Gly Leu Arg Ser His Leu Ile Thr Leu Leu Leu
147    1                   5                  10                  15
148
149   Phe Leu Phe His Ser
150               20
151
152   (2) INFORMATION FOR SEQ ID NO: 6:
```

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RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/910,733*

DATE: 02/13/98
TIME: 10:59:00

INPUT SET: S23457.raw

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153
154          (i) SEQUENCE CHARACTERISTICS:
155              (A) LENGTH: 42 base pairs
156              (B) TYPE: nucleic acid
157              (C) STRANDEDNESS: single
158              (D) TOPOLOGY: linear
159
160         (ii) MOLECULE TYPE: DNA
161
162        (iii) HYPOTHETICAL: NO
163
164         (ix) FEATURE:
165              (D) OTHER INFORMATION: Sequence of intracellular IL-1ra
166                                    typeI not in common
167
168         (ix) FEATURE:
169              (A) NAME/KEY: CDS
170              (B) LOCATION: 33..41
171
172         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
173
174   CAGAAGACCT CCTGTCCTAT GAGGCCCTCC CC ATG GCT TTA G              42
175                                      Met Ala Leu
176                                       1
177
178
179   (2) INFORMATION FOR SEQ ID NO: 7:
180
181          (i) SEQUENCE CHARACTERISTICS:
182              (A) LENGTH: 105 base pairs
183              (B) TYPE: nucleic acid
184              (C) STRANDEDNESS: single
185              (D) TOPOLOGY: linear
186
187         (ii) MOLECULE TYPE: DNA
188
189        (iii) HYPOTHETICAL: NO
190
191         (ix) FEATURE:
192              (D) OTHER INFORMATION: Sequence of intracellular IL-1ra
193                                    typeII not in common
194
195         (ix) FEATURE:
196              (A) NAME/KEY: CDS
197              (B) LOCATION: 33..104
198
199         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
200
201
202   CAGAAGACCT CCTGTCCTAT GAGGCCCTCC CC ATG GCT TTA GCT GAC TTG TAT    53
203                                      Met Ala Leu Ala Asp Leu Tyr
204                                       1                   5
205
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206  GAA GAA GGA GGT GGA GGA GGA GGA GAA GGT GAA GAC AAT GCT GAC TCA        101
207  Glu Glu Gly Gly Gly Gly Gly Gly Glu Gly Glu Asp Asn Ala Asp Ser
208          10                      15                  20
209
210  AAG G                                                                 105
211  Lys
212
213
214  (2) INFORMATION FOR SEQ ID NO: 8:
215
216          (i) SEQUENCE CHARACTERISTICS:
217              (A) LENGTH: 24 amino acids
218              (B) TYPE: amino acid
219              (D) TOPOLOGY: linear
220
221      (ii) MOLECULE TYPE: protein
222
223      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
224
225  Met Ala Leu Ala Asp Leu Tyr Glu Glu Gly Gly Gly Gly Gly Gly Glu
226   1               5                  10                  15
227
228  Gly Glu Asp Asn Ala Asp Ser Lys
229                  20
230
231  (2) INFORMATION FOR SEQ ID NO: 9:
232
233          (i) SEQUENCE CHARACTERISTICS:
234              (A) LENGTH: 474 base pairs
235              (B) TYPE: nucleic acid
236              (C) STRANDEDNESS: single
237              (D) TOPOLOGY: linear
238
239      (ii) MOLECULE TYPE: DNA
240
241     (iii) HYPOTHETICAL: NO
242
243      (ix) FEATURE:
244              (D) OTHER INFORMATION: Common IL-1ra sequence; a nucleotide G
245                      was added in the first position, for computer program
246                      reason,  in order to encode the first amino acid  Glu
247                      and further in order to avoid the creation of a  stop
248                      codon in the inner region of the sequence
249
250      (ix) FEATURE:
251              (A) NAME/KEY: CDS
252              (B) LOCATION: 1..468
253
254      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
255
256  GAG ACG ATC TGC CGA CCC TCT GGG AGA AAA TCC AGC AAG ATG CAA GCC         48
257  Glu Thr Ile Cys Arg Pro Ser Gly Arg Lys Ser Ser Lys Met Gln Ala
258   1               5                  10                  15
```

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION   *US/08/910,733*

INPUT SET: S23457.raw

APPLICATION NUMBER
FILING DATE
CLASSIFICATION
CURRENT APPLICATION DATA